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NOTICE OF ALLOWANCE AND FEE(S) DUE

23494

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04/07/2009

TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999 DALLAS, TX 75265

EXAMINER				
GREY, CHRISTOPHER P				
ART UNIT	PAPER NUMBER			

2416 DATE MAILED: 04/07/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,158	09/26/2001	Martin Li	TI-33430	9577

TITLE OF INVENTION: APPARATUS AND METHOD FOR AN INTERFACE UNIT FOR DATA TRANSFER BETWEEN A HOST PROCESSING UNIT AND A MULTI-TARGET DIGITAL SIGNAL PROCESSING UNIT IN AN ASYNCHRONOUS TRANSFER MODE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/07/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/964,158	09/26/2001	·	Martin Li			TI-33430	9577
			TERFACE UNIT FOR I			EEN A HOST PRO	CESSING
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	07/07/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
GREY, CHRI	STOPHER P	2416	370-395600	_			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME AI PLEASE NOTE: Unlo	ess an assignee is identi	Indication form ed. Use of a Customer TO BE PRINTED ON The field below, no assignee	(1) the names of up to agents OR, alternate (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or to data will appear on the	gle firm (having as a agent) and the nam orneys or agents. If e printed. Type) patent. If an assign	memb es of uj no nam	er a 2 p to le is 3	ocument has been filed for
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a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no lo	-			
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,158	09/26/2001	Martin Li	TI-33430	9577
23494 75	590 04/07/2009		EXAM	INER
TEXAS INSTRU	MENTS INCORPO	RATED	GREY, CHRI	STOPHER P
P O BOX 655474, M/S 3999			ART UNIT	PAPER NUMBER
DALLAS, TX 752	65		2416	
			DATE MAILED: 04/07/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 860 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 860 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
Notice of Allowability	09/964,158	LI ET AL.
Notice of Allowability	Examiner	Art Unit
	CHRISTOPHER P. GREY	2416
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this a) or other appropriate communicati RIGHTS. This application is subjec	application. If not included on will be mailed in due course. THIS
1. \square This communication is responsive to <u>1/14/09</u> .		
2. ☑ The allowed claim(s) is/are <u>1,4,5,7,10-14,18 and 19</u> .		
 Acknowledgment is made of a claim for foreign priority u All Some* None Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application No.	
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) ☐ including changes required by the Notice of Draftsper		O-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in the	e Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5.	l Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	Paper No./Mail I 7.	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		ment of Reasons for Allowance
	9. Other	
	/Aung S. Moe/ Supervisory Patent E	Examiner, Art Unit 2416

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1, 4, 5, 7, 10-14, 18 and 19 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter: Claims 1, 10 and 14 are allowable over the prior art of record since the cited references taken individually or in combination fails to particularly disclose an interface unit within an atm slave unit which is in communication with an ATM master slave unit via an UTOPIA format, where the interface unit comprises an input unit coupled to an input buffer unit exchanging control signals with one another, the buffer unit including a FIFO configured to store 2 data cells received from the input unit to permit the data cells to be transferred on consecutive clock cycles to a destination, transferring the data cells to a DMA unit in response to a first READY signal. The interface unit also includes a register and calculation unit for generating a destination location for the data cell, and an output buffer unit FIFO receiving data cells from the DMA in response to a second READY signal and exchanging control signals with the DMA. The interface unit also includes an output unit receiving data cells from the output buffer unit, the output unit exchanging control signals with the ATM master processing unit.

It is noted that the closest prior art of record Holm et al. (US 6122680) teaches an integrated circuit including a receive FIFO in communication with a DMA and a

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transmit FIFO in communication with a DMA for routing data. However, Holm fails to disclose or render obvious the above underlined limitations as claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER P. GREY whose telephone number is (571)272-3160. The examiner can normally be reached on 10AM-7:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Moe Aung can be reached on (571)272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Aung S. Moe/ Supervisory Patent Examiner, Art Unit 2416 /Christopher P Grey/ Examiner, Art Unit 2416